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plurality of processed partial redord information blocks each of which includes a plurality of information units, each information unit including one or a plurality of reproduction units;

navigation information generating means for generating navigation information including recording position information indicating recording positions of other reproduction units that belong to the same processed partial record information block, corresponding to a predetermined reproduction time of the partial record information blocks within a predetermined range before and after a respective one of the reproduction units on an axis of reproduction time of each of the partial record information blocks;

multiplexing means for multiplexing the plurality of processed partial record information blocks and the navigation information so that each reproduction unit includes the navigation information, thereby obtaining multiplexed partial record information; and

recording means for recording the multiplexed partial record information onto an information recording medium.

The information recording apparatus according to claim 16, wherein:

the record information includes at least video information,

the partial record information blocks are to be reproduced at the same reproduction time on the axis of reproduction time, and

each of the partial record information blocks comprises the video information of the same object taken from different viewpoints.

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3 12. The information recording apparatus according to claim 16, wherein the partial record information blocks are to be reproduced by information reproducing apparatuses having different setting modes.

13. An information recording medium to be reproduced by a reproducing apparatus, the information recording medium comprising:

a plurality of processed partial record information blocks generated by applying a predetermined signal processing to record information including a plurality of partial record information blocks, each processed partial record information block including a plurality of information units;

a plurality of reproduction units, each information unit comprising one or more of the reproduction units; and

navigation information included in each of the reproduction units, the navigation information including recording position information indicating recording positions of other reproduction units that belong to the same processed partial record information block, corresponding to a predetermined reproduction time of the partial record information blocks within a predetermined range before and after a respective one of the reproduction units on an axis of reproduction time of each of the partial record information blocks.

5 14. The information recording medium according to claim 13, wherein:

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the record information includes at least video information,

the partial record information blocks are to be reproduced at the same reproduction time on the axis of reproduction time, and

each of the partial record information blocks comprises the video information regarding the same object taken from different viewpoints.

The information recording medium according to claim 3, wherein the partial record information blocks are to be reproduced by information reproducing apparatuses having different setting modes.

16. An information reproducing apparatus for reproducing information recorded on an information recording medium comprising:

a plurality of processed partial record information blocks generated by applying a predetermined signal processing to record information including a plurality of partial record information blocks, each processed partial record information block including a plurality of information units;

a plurality of reproduction units, each information unit comprising one or more of the reproduction units; and

navigation information included in each of the reproduction units, the navigation information including recording position information indicating recording positions of other

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reproduction units that belong to the same processed partial record information block, corresponding to a predetermined reproduction time of the partial record information blocks within a predetermined range before and after a respective one of the reproduction units on an axis of reproduction time of each of the partial record information blocks,

the information reproducing apparatus comprising:

detection and demodulation means for detecting and demodulating information recorded on the recording medium to thereby obtain a demodulation signal;

extracting means for extracting the recording position information out of the demodulation signal; and

control means for controlling reproduction of information on a basis of the extracted recording position information.

The information reproducing apparatus according to claim 16, wherein:

the record information includes at least video information,

the partial record information blocks are to be reproduced at the same reproduction time on the axis of reproduction time, and

each of the partial record information blocks comprises the video information regarding the same object taken from different viewpoints.

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CONT

The information reproducing apparatus according to claim 16, wherein the partial record information blocks are to be reproduced by information reproducing apparatuses having different setting modes.

The information reproducing apparatus according to claim 16, further comprising input means for instructing a scan operation at a faster speed than during a normal reproduction,

wherein the control means controls the scan operation on the basis of the extracted recording position information.

The information reproducing apparatus according to claim 16, further comprising input means for instructing a time search operation to perform reproduction at a specific address, wherein the control means controls the time search operation on the basis of the extracted recording position information.

An information recording medium to be reproduced by a reproducing apparatus, comprising:

a plurality of information blocks, each of which includes a plurality of interleaved units;

a plurality of object units, each interleaved unit comprising one or more of the object units;

and

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navigation information included in each of the object units and positioned at a forefront of each of the object units, wherein the navigation information includes recording position information indicating recording positions of other object units that belong to the same information block within a predetermined range from an object unit in which the recording position information is included on an axis of reproduction time of an information block to which the object unit belongs.

The information recording medium according to claim 21, wherein:

the record information includes at least video information,

the information blocks are to be reproduced at the same reproduction time on the axis of reproduction time, and

each of the information blocks comprises the video information regarding the same object taken from different viewpoints.

The information recording medium according to claim 21, wherein the information blocks are to be reproduced by information reproducing apparatuses having different setting modes.

24. An information reproducing apparatus for reproducing information recorded on an information recording medium comprising:

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a plurality of information blocks, each of which includes a plurality of interleaved units; a plurality of object units, each interleaved unit comprising one or more of the object units; and

navigation information included in each of the object units and positioned at a forefront of each of the object units, the navigation information including recording position information indicating recording positions of other object units that belong to the same information block within a predetermined range from an object unit in which the recording position information is included on an axis of reproduction time of an information block to which the object unit belongs,

the information reproducing apparatus comprising:

detection and demodulation means for detecting and demodulating information recorded on the recording medium to obtain a demodulation signal;

extracting means for extracting the recording position information out of the demodulation signal; and

control means for controlling reproduction of information on the basis of the extracted recording position information.

The information reproducing apparatus according to claim 24, wherein:

the record information includes at least video information,

the information blocks are to be reproduced at the same reproduction time on the axis of reproduction time, and

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each of the information blocks comprises the video information regarding the same object taken from different viewpoints.

The information reproducing apparatus according to claim 24, wherein the information blocks are to be reproduced by information reproducing apparatuses having different setting modes.

The information reproducing apparatus according to claim 24, further comprising input means for instructing scan operation at a faster speed than during a normal reproduction,

wherein the control means controls the scan operation on the basis of the extracted recording position information.

The information reproducing apparatus according to claim 24, further comprising input means for instructing time search operation to perform reproduction at a specific address,

wherein the control means controls the time search operation on the basis of the extracted recording position information.--

## **REMARKS**

## Summary of the Office Action

In the Office Action dated May 21, 1999, claims 1-9 stand rejected under 35 U.S.C. § 102(e) as being anticipated by *Cookson et al.*, U.S. Patent No. 5,574,567.

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